

AN 118:59288 CA Full-text

OREF 118:10623a,10626a

TI Preparation of colorless and orderless diglycerin

IN Oka, Kenji

PA Daicel Chemical Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

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PI	JP 04217637	A	19920807	JP 1990-417743	19901217 <--
	JP 2800070	B2	19980921		
PRAI	JP 1990-417743		19901217		

AB A colored distillation residue containing diglycerin (I) obtained as a byproduct in manufacturing I is purified by continuously distilling it to take out crude I as a tower-top liquid, and treating the crude I with activated charcoal followed by distillation to remove I from the top of the tower. The process removes a trace of impurities such as acrolein which gas chromatog. fails to detect, and gives cosmetic grade I which passes sensory tests for color and order. Thus, a black distillation bottoms containing glycerin 5, I 55, and triglycerin or higher polyglycerins 40% is evaporated by a thin-film flush evaporator at 5 Torr, 260°, and feeding rate 200 g/h to give 40% I of APHA value 200, which was treated with a column (diameter 5 cm, 16 cm height) of 120 g activated charcoal Diahope 008 (Mitsubishi Chemical Industries Ltd.) at feeding rate 50 g/h and 100° to give 98% I of APHA of 60-120. This was subjected to thin-film evaporation at 5 Torr, 160°, and feeding rate 200 g/h to give 90% I of 99.5% purity, and APHA of <10 with no odor by sensory test.

OSC.G 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

AN 1992-312255 [199238] WPIDS Full-text
DNC C1992-138685 [199321]
TI Production of colourless and odourless di:glycerol of cosmetic grade -
comprises distillation of residue liquid from glycerol production to obtain crude
di:glycerol, treating with active carbon@ and distilling
DC D21; E17
IN OKA K
PA (DAIL-C) DAICEL CHEM IND LTD
CYC 1
PI JP 04217637 A 19920807 (199238)* JA 4[0] <--
JP 2800070 B2 19980921 (199843) JA 3
ADT JP 04217637 A JP 1990-417743 19901217; JP 2800070 B2 JP
1990-417743 19901217
FDT JP 2800070 B2 Previous Publ JP 04217637 A
PRAI JP 1990-417743 19901217
IPCR B01D0015-00 [I,A]; B01D0015-00 [I,C]; C07B0063-00 [I,A]; C07B0063-00
[I,C]; C07C0031-00 [I,C]; C07C0031-22 [I,A]; C07C0041-00 [I,C];
C07C0041-36 [I,A]; C07C0041-42 [I,A]; C07C0043-00 [I,C]; C07C0043-13 [I,A]
FCL B01D0015-00 K; C07B0063-00 A; C07C0031-22; C07C0041-36; C07C0041-42;
C07C0043-13 A; C07C0043-13 D
FTRM 4D017; 4H006; 4H006/AA02; 4D017/AA06; 4H006/AD11; 4H006/AD17; 4D017/BA03;
4D017/BA04; 4D017/BA07; 4D017/CA03; 4D017/EA01; 4D017/EB02; 4D017/EB07;
4H006/FE11; 4H006/FG30; 4H006/GN05; 4H006/GP01; 4H006/GP10
AB JP 04217637 A UPAB: 20050505
Production of colourless and odourless diglycerol comprises treating coloured
distillation residue liquid containing diglycerol sec. formed in glycerol production
according to process consisting of following three steps (a), (b) and (c). (a) to
distil continuously and take out crude diglycerol liquid as column top liquid
(b) to treat above crude diglycerol liquid with active C. (c) to distil above C
treated liquid and take out from column top.
ADVANTAGE - Diglycerol of high grade used as cosmetics material can be produced.
- In an example, residual liquid (1) left after recovering glycerol was
flash-evaporated to get purified diglycerol (2) of PHA 200, which was treated with
active C and subjected to thin film evap
FS CPI
MC CPI: D08-B; E10-E04C

PRODUCTION OF COLORLESS ODORLESS DIGLYCEROL

Publication number: JP4217637 (A)

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JP2800070 (B2)

Inventor(s): OKA KENJI +

Applicant(s): DAICEL CHEM +

Classification:

- international: **B01D15/00; C07B63/00; C07C31/22; C07C41/36; C07C41/42; C07C43/13; B01D15/00; C07B63/00; C07C31/00; C07C41/00; C07C43/00; (IPC1-7): B01D15/00; C07B63/00; C07C31/22; C07C41/42; C07C43/13**

- European:

Application number: JP19900417743 19901217

Priority number(s): JP19900417743 19901217

Abstract of JP 4217637 (A)

PURPOSE: To produce diglycerol usable as a cosmetic grade of high grade to pass functional tests from purified diglycerol not to pass the cosmetic grade, having such an analyzed value of acroleins by gas chromatography as an amount not to be analyzed. CONSTITUTION: A method of producing colorless odorless diglycerol wherein a colored distillation residue containing diglycerol prepared as a by-product in manufacturing glycerol is (a) continuously distilled and crude diglycerol liquid is taken out from a column top liquid, (b) the crude diglycerol liquid is treated with active carbon, then (c) distilled and taken out from the column top. Diglycerol usable as a cosmetic grade can be produced.

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PATENT ABSTRACTS OF JAPAN

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(21)Application number : 02-417743

(71)Applicant : DAICEL CHEM IND LTD

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(72)Inventor : OKA KENJI

(54) PRODUCTION OF COLORLESS ODORLESS DIGLYCEROL

(57)Abstract:

PURPOSE: To produce diglycerol usable as a cosmetic grade of high grade to pass functional tests from purified diglycerol not to pass the cosmetic grade, having such an analyzed value of acroleins by gas chromatography as an amount not to be analyzed.

CONSTITUTION: A method of producing colorless odorless diglycerol wherein a colored distillation residue containing diglycerol prepared as a by-product in manufacturing glycerol is (a) continuously distilled and crude diglycerol liquid is taken out from a column top liquid, (b) the crude diglycerol liquid is treated with active carbon, then (c) distilled and taken out from the column top. Diglycerol usable as a cosmetic grade can be produced.